Amana®
Heating ▪ Air Conditioning
A higher standard of comfort

GUC-X High Efficiency Gas Fired Warm Air Furnace

Specification Sheet

Affix this Specification Sheet, Installation Instructions and User Information manual adjacent to the unit.

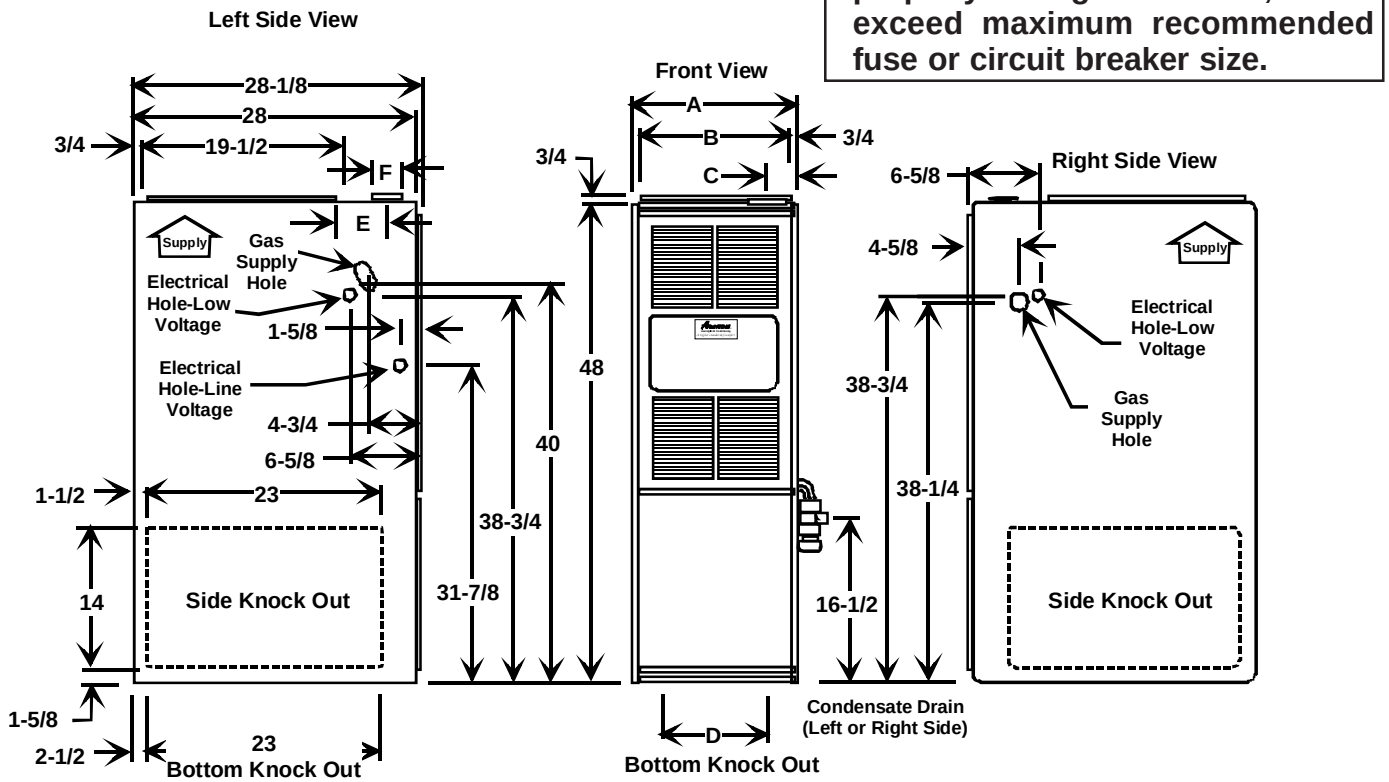
Model Number	Input (BTUH)	Output (BTUH)	AFUE %	Temp. Rise Range, °F	Number of Burners	Minimum Circuit Ampacity[1]	Maximum Overcurrent Protection[2]	Blower			AC Tons @ .5" ESP	Pressure Switch Setting (Inches W.C.)[3]	Shipping Weight (lbs)
								D" x W"	HP	Speeds			
GUC045X30B	45,000	42,900	95.3	25-55	2	12.1	15	10X8	1/3	3	2.0-3.0	-1.35	162
GUC070X30B	70,000	65,300	93.3	35-65	3	11.1	15	10X8	1/3	4	1.5-3.0	-1.25	177
GUC070X40B	70,000	65,300	93.3	35-65	3	14.9	15	10X10	3/4	4	3.0-4.0	-1.25	185
GUC090X35B	90,000	85,000	94.4	35-65	4	12.6	15	10X8	1/2	4	2.5-4.0	-1.35	201
GUC090X50B	90,000	85,000	94.4	35-65	4	15.1	20	10X10	3/4	4	3.5-5.0	-1.35	210
GUC115X50B	115,000	107,800	93.7	35-65	5	15.1	20	10X10	3/4	4	3.5-5.0	-1.05	235

[1] Minimum Circuit Ampacity = (Circulating Blower Amps x 1.25) + I.D. Blower Amps
[2] Maximum Overcurrent Protection refers to maximum recommended fuse or circuit breaker size.
[3] As shipped for installations below 4,000 feet.

⚠ WARNING

To avoid death, personal injury or property damage due to fire, do not exceed maximum recommended fuse or circuit breaker size.

Dimensions



Dimensions						
Size	A	B	C	D	E	F
45	16-1/2	15	2	10-1/2	6-1/8	2-3/8
70	20-1/2	19	2	14-1/2	6-1/8	2-3/8
90	24-1/2	23	2	18-1/2	6-1/8	2-3/8
115	24-1/2	23	2	18-1/2	6-1/8	2-3/8

All dimensions are in inches.

Due to continuous engineering design and development, the above information is subject to change without notice.

September 1998 (1)

Amana
Fayetteville, TN 37334

11134623

GUC Blower Performance														
Model (Htg. Speed As Shipped)	Motor Speed	Tons AC at .5" ESP	External Static Pressure, Inches Water Column											
			0.1		0.2		0.3		0.4		0.5		0.6	0.7	0.8
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	CFM	CFM
GUC045X30B (MED)	HIGH	3.0	1470	26	1401	28	1337	29	1269	31	1197	32	1121	1030	919
	MED	2.5	1294	30	1254	31	1207	32	1153	34	1089	36	962	940	819
	LOW	2.0	1000	39	999	39	984	39	959	40	920	42	866	785	700
GUC070X30B (HIGH)	HIGH	3.0	1541	39	1509	40	1414	43	1349	45	1274	47	1202	1108	1005
	MED	2.5	1323	46	1274	47	1234	49	1181	51	1121	54	1050	975	880
	MED-LO	2.0	1036	58	1024	59	1006	60	978	62	940	64	890	826	720
	LOW	1.5	788	-----	786	-----	784	-----	765	-----	745	-----	698	639	563
GUC070X40B (LOW)	HIGH	4.0	1973	-----	1894	-----	1806	NA	1724	35	1633	37	1536	1422	1383
	MED	3.5	1786	-----	1729	35	1650	37	1575	38	1501	40	1410	1268	1097
	MED-LO	3.5	1590	38	1553	39	1507	40	1447	42	1384	44	1311	1142	1033
	LOW	3.0	1341	45	1333	45	1311	46	1281	47	1225	49	1133	1033	889
GUC090X35B (HIGH)	HIGH	4.0	1890	41	1825	43	1757	44	1673	46	1599	49	1506	1424	1300
	MED	3.5	1659	47	1614	48	1569	49	1506	52	1441	54	1372	1281	1183
	MED-LO	3.0	1340	58	1340	58	1310	59	1279	61	1240	63	1182	1103	1009
	LOW	2.5	1049	-----	1040	-----	1034	-----	1013	-----	985	-----	941	883	803
GUC090X50B (MED-LO)	HIGH	5.0	2326	-----	2232	35	2123	37	2055	38	1961	40	1861	1756	1616
	MED	4.5	1997	39	1936	40	1874	41	1810	43	1743	45	1659	1556	1429
	MED-LO	4.0	1744	44	1710	45	1681	46	1634	47	1573	49	1503	1415	1292
	LOW	3.5	1483	52	1469	53	1449	54	1429	54	1387	56	1329	1245	1085
GUC115X50B (HIGH)	HIGH	5.0	2325	42	2233	44	2136	46	2046	48	1939	51	1840	1721	1593
	MED	4.5	1988	49	1927	51	1871	52	1797	55	1720	57	1630	1544	1422
	MED-LO	4.0	1729	57	1702	58	1666	59	1611	61	1554	63	1484	1390	1277
	LOW	3.5	1473	-----	1460	-----	1443	-----	1417	-----	1372	-----	1316	1243	1128

NOTES:

- CFM information in the above table is with high velocity, permanent filter(s) as shipped with the furnace. If the furnace is shipped with two side return filters, this table assumes both filters are used.
- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- This chart is for furnaces installed at 0 - 4000 feet. At higher altitudes, a properly derated unit will have the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.
- The shaded area ( )indicates ranges in excess of maximum external static pressure allowable when heating. For satisfactory operation, external static pressure should not exceed 0.5" W.C. The data for 0.6" W.C. to 0.8" W.C. is shown for air conditioning purposes only.
- The dashed (-----) areas indicate a temperature rise not recommended for this model.
- The installation must be adjusted to obtain a temperature rise within the range listed on the furnace nameplate.

Accessibility Clearances (Minimum)

WARNING

To avoid death, personal injury or property damage due to fire, clearances to combustible surfaces listed as below must be observed.

36 inches front clearance is required for servicing or cleaning.

NOTE: In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

CLEARANCES TO COMBUSTIBLE SURFACES GUD_ MODEL FURNACES (Inches)			
FRONT	3	TOP	1
RIGHT	1	FLUE	0
LEFT	1	FLOOR	C
REAR	0	----	----

C = If placed on combustible floor, floor MUST be wood ONLY.

High Altitude Installations

For installations above 4000 feet, please refer to your Amana distributor for required kit(s).

Gas	Altitude	Kit	Orifice	Manifold Pressure
Natural	0 - 4000	None	#43	3.5" W.C.
Propane	0 - 4500	LPTK09	#55	10.0" W.C.

NOTE: In Canada, gas furnaces are certified to 4,500 feet only.

Flame Sensor

Flame sensor output is 1 to 4 microamps at 115 volts.

Filters

Side Return Filters Minimum Recommended Size		
Size_Air Flow	Disposable*	Permanent*
045_30	1 - 24x24 (576)	1 - 16x25 (280)
070_30	1 - 24x24 (576)	1 - 16x25 (280)
070_40	2 - 16x25 (768)	1 - 16x25 (372)
090_35	2 - 14x25 (692)	1 - 16x25 (342)
090_50	2 - 20x25 (960)	2 - 16x25 (465)
115_50	2 - 20x25 (960)	2 - 16x25 (465)

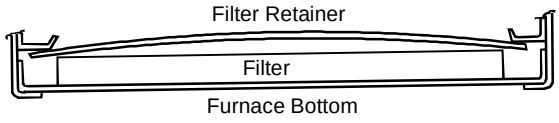
* Quantity - Inches (Total Minimum Surface Area in Square Inches)

Permanent filter sizes are as shipped with furnace. The minimum permanent filter size area is based on allowable face velocity of 620 feet per minute.

Bottom Return Filter Sizes		
Model	Filter Size (Inches)	Type
45	14 x 25 x 1	P
70	16 x 25 x 1*	P
90	20 x 25 x 1	P
115	20 x 25 x 1	P

P = Permanent
* As Shipped With Furnace

The figure below shows how the filter is retained over the bottom return air opening.



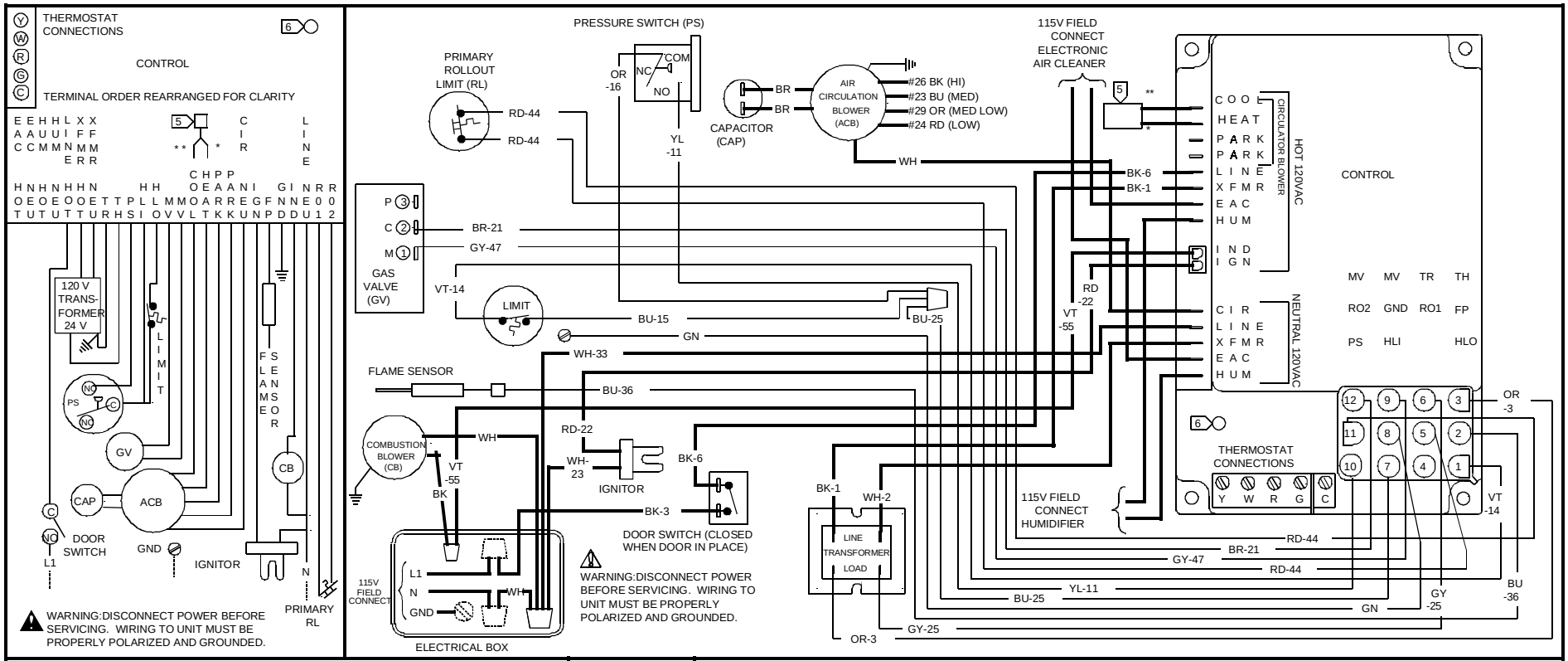
Filter Retainer

IMPORTANT NOTES:

1. All furnaces have a redundant gas valve and blower door interlock switch.
2. All furnaces are manufactured for use on 115 VAC, 60 Hz, single phase electrical supply.
3. I**MPORTANT:** While the data is presented as a guide, it is very important to properly size fuses and wires and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.
4. Performance figures are based on Department of Energy information and requirements under continuous operating conditions. Performance will vary with weather conditions and use.
5. Drain connections must conform to local codes.

WARNING

To prevent death, personal injury or property damage due to electrical shock, disconnect electrical power to this furnace before servicing or performing maintenance.



FACTORY WIRED BLOWER MOTOR TO CONTROL CONNECTIONS

FURNACE MODEL * MANUFACTURER'S VARIABLE LETTER	* HEATING BLOWER SPEED: SPEED	MOTOR TO "HEAT"	MOTOR SPEEDS
GUX: 045X30*	LOW	RD-24	3
GUC: 070X40*	LOW	RD-24	4
GUC: 045X30* GUD: 045X30*	MED	BU-23	3
GUC: 090X50* GUD: 070X40* GUX: 070X40*	MED LOW	OR-29	4
GUX: 070X30*, 090X50* GUD: 090X35*, 090X50*	MED	BU-23	4
GUX: 090X35*, 115X50* GUC: 070X30*, 115X50*, 090X35* GUD: 070X30*, 115X50*	HI	BK-26	4

** COOLING BLOWER SPEED

SEE INSTALLATION INSTRUCTIONS TO DETERMINE PROPER COOLING BLOWER SPEED.

COLOR CODE
YL YELLOW
OR ORANGE
VT VIOLET
GN GREEN
BK BLACK
BR BROWN
WH WHITE
BU BLUE
GY GRAY
RD RED

LOW VOLTAGE
LOW VOLTAGE FIELD
HI VOLTAGE
HI VOLTAGE FIELD

IMPORTANT:
READ BEFORE OPERATING OR SERVICING THIS UNIT.

1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
2. AMANA SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105° C USE COPPER CONDUCTORS ONLY.
4. UNUSED BLOWER MOTOR LEADS MUST BE PLACED ON "PARK" TERMINALS OF CONTROL OR TAPED.
5. IF HEATING AND COOLING BLOWER SPEEDS ARE NOT THE SAME DISCARD JUMPER BEFORE CONNECTING BLOWER LEADS.
6. DIAGNOSTIC LIGHT:STEADY=REPLACE CONTROL;1 FLASH=LOCKOUT;2 FLASHES=PS STUCK CLOSED; 3 FLASHES=PS STUCK OPEN;4 FLASHES=OPEN HIGH LIMIT SWITCH;5 FLASHES=OPEN ROLLOUT CONTROL: CONTINUOUS FLASHING=FLAME-NO CALL FOR HEAT

11165501 REV. 0